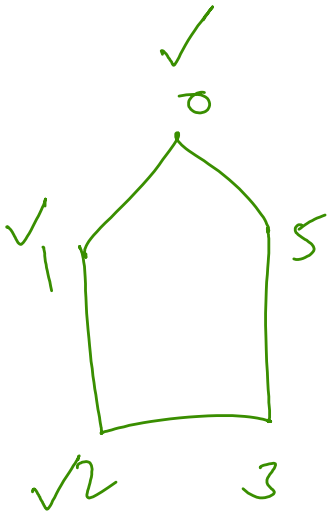
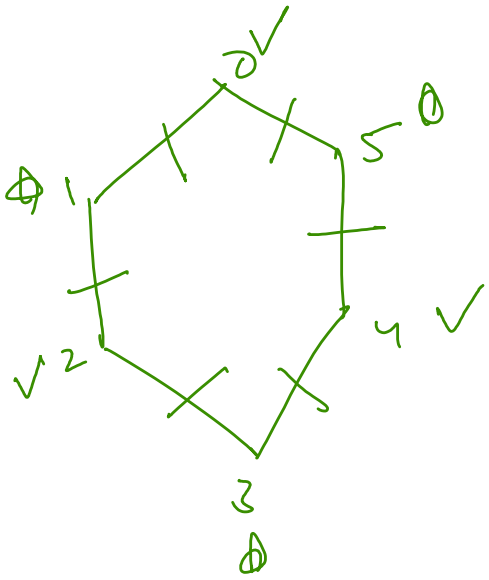
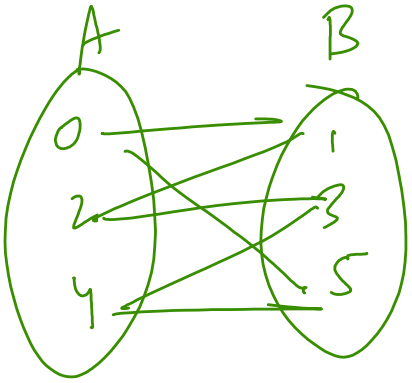
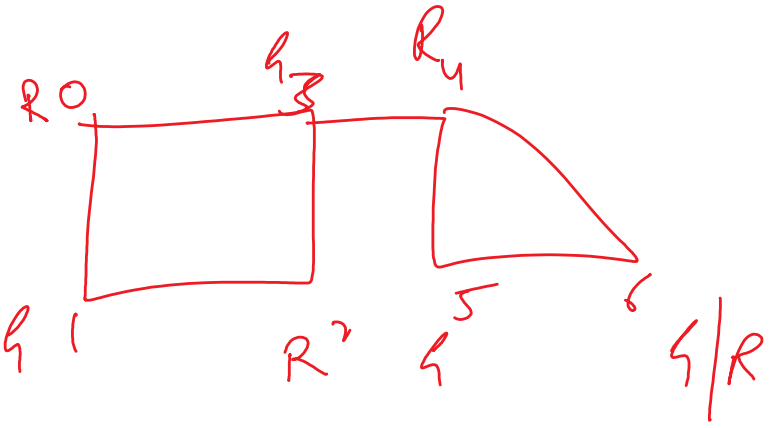
Tuesday, June 14, 2022 9:21 PM

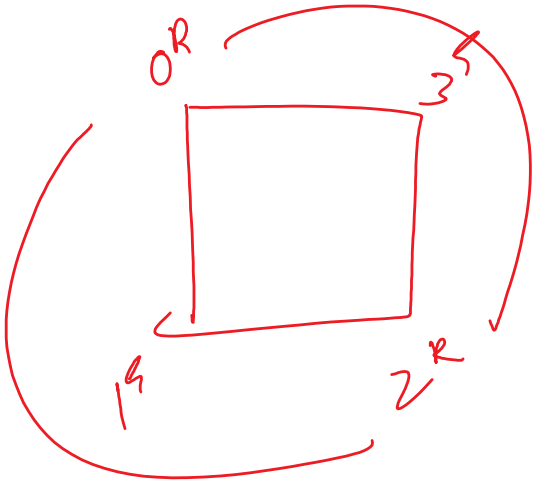


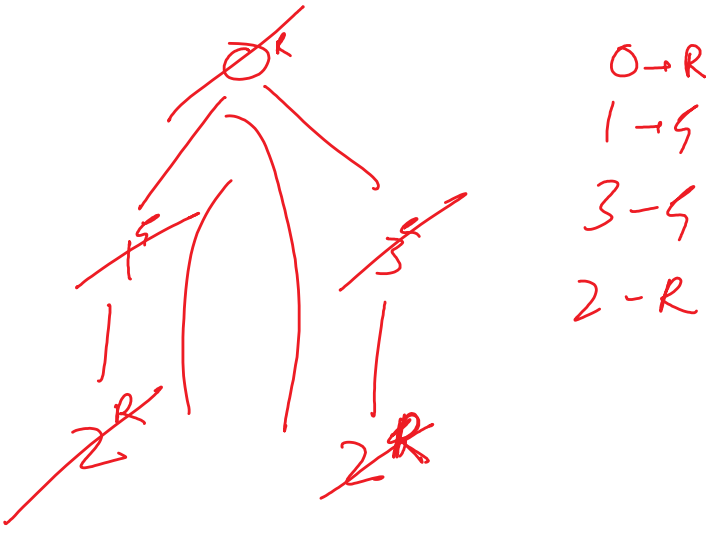




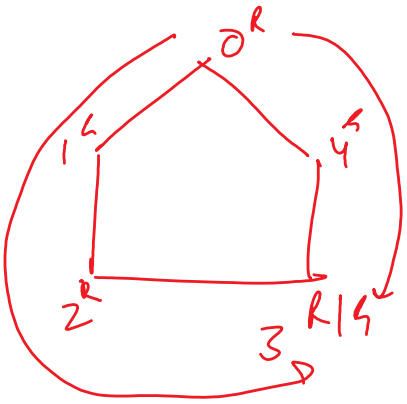
Bipartite

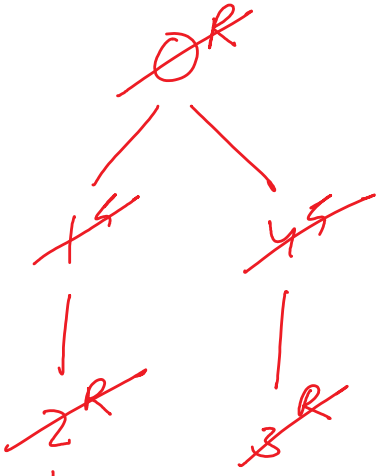




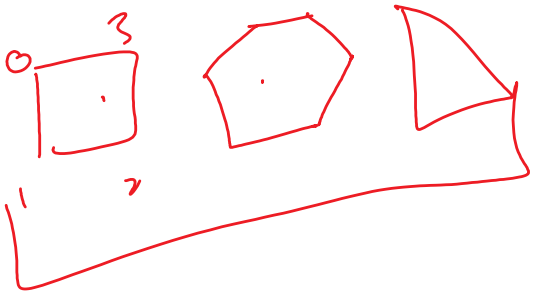


0→R
1→4
3→4
2→R

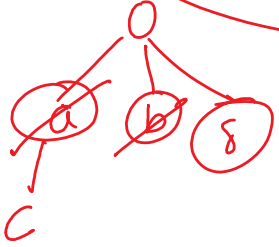




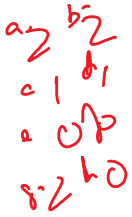
0 → R
1 → 4
4 → 4
2 → R
3 → R

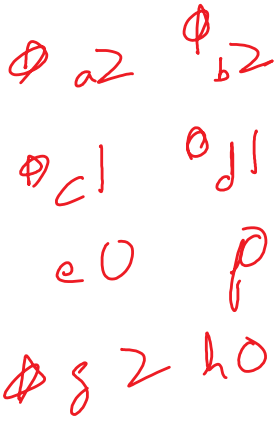


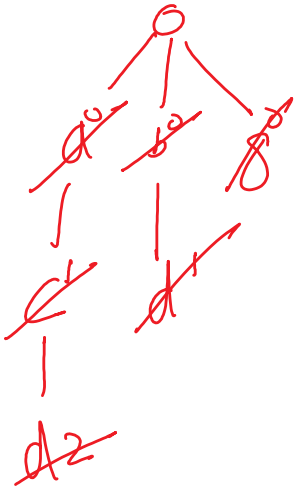
9:42 - 9:52

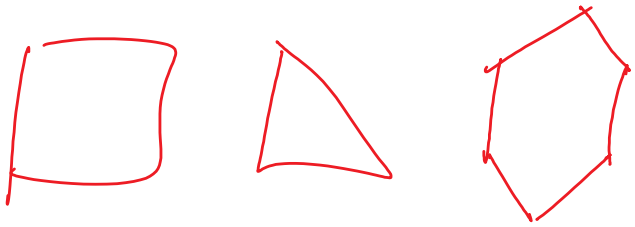


Leetcode





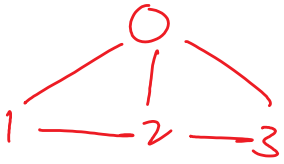


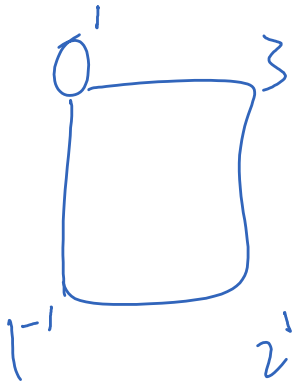


0 → 1, 2, 3

0 → 1 2 3
1 → 0 2
2 → 0 1 3
3 → 0 2

[[1,2,3],[0,2],[0,1,3],[0,2]]

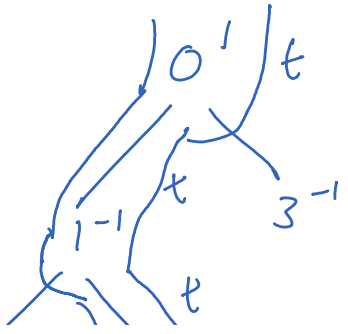




```
public boolean traverseDFS(int[][] graph, int[] visited, int v, int color){
    visited[v] = color;
    for(int nbr: graph[v]){
        if(visited[nbr] == 0){
            boolean isBip = traverseDFS(graph, visited, nbr, color * -1);
            if(isBip == false){
                return false;
            }
        } else {
            int oc = visited[nbr];
            int nc = color * -1;

            if(oc != nc){
                return false;
            }
        }
```

v, p



```
            int nc = color * -1;

            if(oc != nc){
                return false;
            }
        }

    return true;
}
```